# Wyse® R class™ cloud clients

WYSE

for your data

your budgets

and your environment

## Best power, expandability and display performance

Wyse R class: All you need to know. Here.

# Introducing the Wyse R class cloud clients

**Wyse R class cloud clients cater for everything your users need from their desktop PCs. Without the things you don't.** Like moving parts, wasted energy, insecure hard drives and excessive unnecessary heat.

Instead we've built in what matters the most to you: Powerful processors, dual monitor support, fast graphics and a host of USB ports for those vital everyday peripherals. Perfect when you need a cloud client desktop capable of voice, data and video.

## Cloud PCs

## Thin Clients

**Wyse R00L**
High performance, slim form factor cloud PC for Wyse WSM.

**Wyse R00LE**
High performance, comprehensive expansion options, cloud PC for Wyse WSM.

**Wyse R10L**
High performance paired with simplicity and security, Wyse ThinOS.

**Wyse R50L**
High performance, slim thin client, SUSE Linux Enterprise.

**Wyse R90L**
High performance, slim thin client, Microsoft Windows XP Embedded.

**Wyse R90LW**
High performance, slim thin client, Microsoft Windows Embedded Standard.

**Wyse R90L7**
Harnesses the rich user experience of Microsoft Windows Embedded Standard 7.

**Wyse R50LE**
High performance thin client, comprehensive expansion options, SUSE Linux Enterprise.

**Wyse R90LE**
High performance thin client, comprehensive expansion options, Microsoft Windows XP Embedded.

**Wyse R90LEW**
High performance thin client, comprehensive expansion options, Microsoft Windows Embedded Standard.

# **Features** Wyse R class cloud clients

Created with performance and expandability in mind, the new Wyse R class joins the uniquely integrated range of Wyse Cloud Client Computing hardware and software. Wyse R class features high performance central and graphics processors coupled with full support for multiple screens, and the best PC experience available on a thin computing platform with the Wyse TCX™ Suite of virtualization software. Wyse Device Manager supports the Wyse R class with scalable enterprise-wide management including simple deployment, patching and updates and asset management – all with secure end-to-end encrypted communications.

Finally, each and every Wyse R class cloud client contributes – quietly and coolly – to lowering your organization's carbon footprint, with power usage and emissions that are a fraction of traditional PC desktops.

**Performance**

**L Family Connectivity**

**LE Family Connectivity**

**Mounting Options**

**Green**

**Cloud PC Provisioning**

Wyse WSM

**Thin Client Management**

Wyse WDM

**User Experience Optimization**

**User Experience Acceleration**

**ThinOS**

Wyse ThinOS

**Wyse Enhanced SUSE Linux**

Novell

**Microsoft Windows XP Embedded**

Microsoft Windows xp Embedded

**Microsoft Windows Embedded Standard**

Windows Embedded Standard 2009

**Microsoft Windows Embedded Standard 7**

Windows Embedded Standard 7

**Learn more:**
**Simply click the Wyse R class feature icons.**

Visit: wyse.com

Take a tour of the Wyse R class range features here

# **Performance** High Performing central and graphics processors

By employing the advanced ATI 690E chipset from AMD, the Wyse R class family of cloud clients provides the best graphics performance in their class. With a maximum resolution of 2560x1600 on a single display (RL-family) or two displays (RLE-family) these devices will support any high-end graphics application, with support for dual monitors with standard DVI-I and DVI-D ports.

In addition, Wyse R class includes support for Pixel Shader 2.0 that's Windows 7 with Premium Aero GUI compliant, which will be a requirement for running some of the latest and forthcoming technologies from Citrix, Microsoft and VMware.

## AMD Sempron Processor

The advanced technology contained in this CPU from AMD lowers power consumption without compromising performance.

- AMD64 Technology
- PowerNow! technology
- HyperTransport technology
- Built to support Microsoft® Windows® XP Embedded, as well as Linux.

## AMD ATI 690E Windows 7 ready

The most powerful and highly optimized graphics engine in its class.

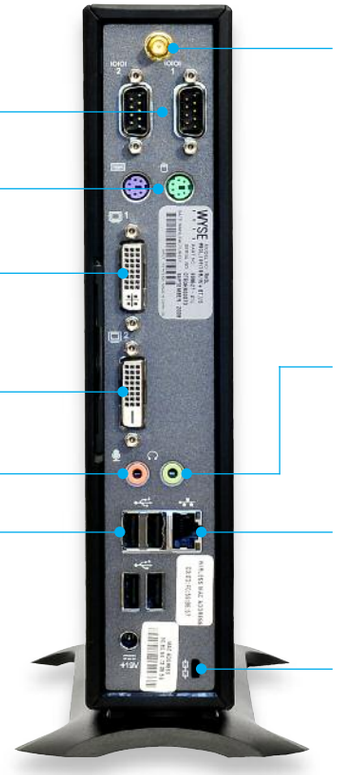
- Multiple display support
- Built-in support for Full DirectX 9.0
- 3D Acceleration Features
- Support for OpenGL
- Motion Video Acceleration Features (MPEG-2, MPEG-4 and WMV9)

Continue tour

# R class L-Family connectivity

## Wyse R00L cloud PC; R10L, R50L, R90LW and R90L7 thin clients

### Well connected

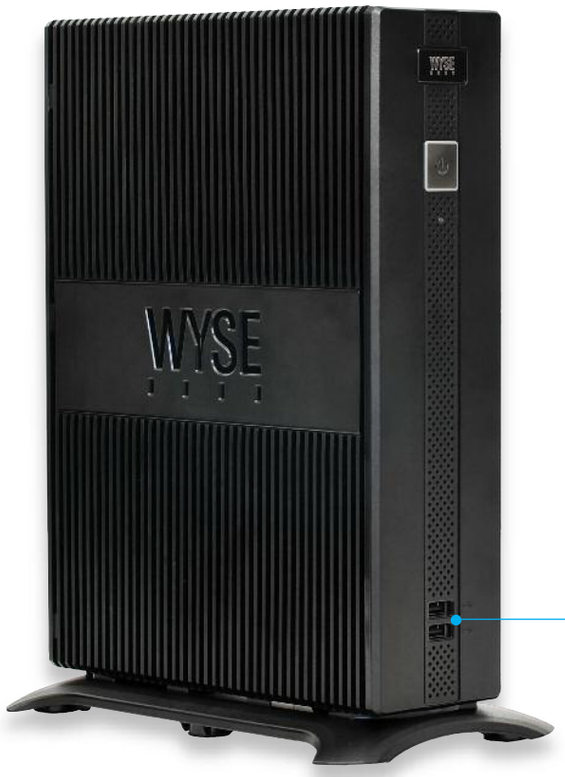


- Two serial ports
- Two PS/2 ports for keyboard and mouse
- One DVI-I port
- One DVI-D port
- Audio In: 1/8-inch mini, 8 bit stereo microphone
- Six available external USB 2.0 ports (2 front; 4 back)
- Wi-Fi antenna connector for optional 802.11 b/g/n
- Audio out: 1/8-inch mini, 16 bit stereo Internal mono speaker
- 10/100/1000 Base-T Gigabit ethernet port
- Kensington lock slot

Continue tour

# R class LE-Family connectivity

## Wyse R00LE cloud PC; R50LE, R90LE and R90LEW thin clients




### Well connected

One parallel port

Two serial ports

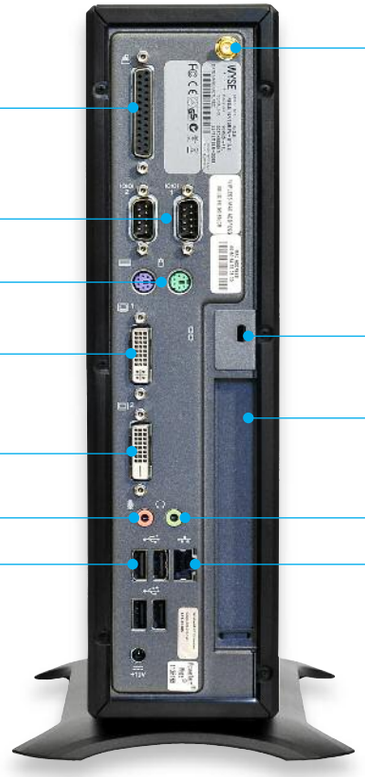
Two PS/2 ports for keyboard and mouse

One DVI-I port

One DVI-D port

Audio In: 1/8-inch mini, 8 bit stereo microphone

Six available external
USB 2.0 ports (2 front; 4 back)



Wi-Fi antenna
connector for optional
802.11 b/g/n

Kensington lock slot

One PCIe 1.1a x4 with
x16 slot

Audio out: 1/8-inch
mini, 16 bit stereo
Internal mono speaker

10/100/1000 Base-T
Gigabit ethernet port

**Continue tour**

# Mounting options

## Vertical

- Each Wyse R class is supplied as standard with feet for vertical use.

## Horizontal

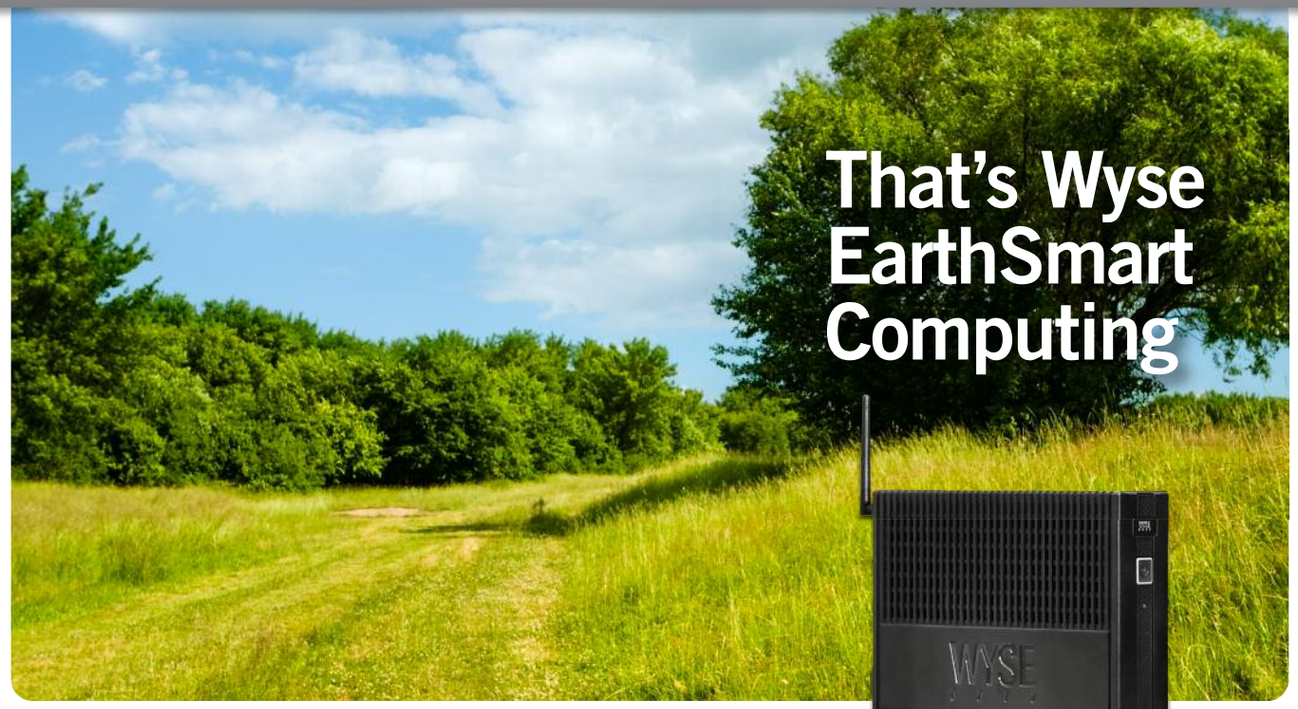
- Optional feet enable Wyse R class to be used horizontally.

## Back of monitor or wall mounting

- An optional VESA mount bracket enables mounting on the back of a monitor or on a wall (this requires the four industry standard mounting points to be free). The same bracket can be used for wall mounting, or in a secure or ruggedized cabinet if required.

Continue tour

# **Desktop computing** Without compromise




EarthSmart Computing™

## Going Green with Wyse Cloud Client Computing™

Many Wyse R class models are EnergyStar certified, a recognized sign of energy efficiency. Through our EarthSmart Computing initiative we are committed to helping organizations implement a greener computing strategy - one that delivers a more efficient and productive computing experience for your users with a positive effect on energy wastage, heat and carbon emissions.

## Green Power

Wyse R class cloud clients use between 12 and 15 watts of power in typical use*. In comparison, a typical PC would use between 70 and 150 watts. Even in sleep mode Wyse R class units draw just 2 watts while being fully remotely managed. Then, when you include additional power requirements in the data center, a thin computing deployment will deliver power savings of between 50 and 90%.

## Learn more

Download carbon calculators, fact sheets and white papers from here: **www.wyse.com/green**

*Average power usage with device connected to 1 keyboard, 1 PS/2 mouse, and 1 monitor.

**Continue tour**

# **Cloud PC Provisioning** Wyse WSM

## Enterprise computing from the cloud is here. Whatever you want. Wherever you need it.

That's the thinking behind Wyse WSM. It's a dynamic on-demand streamed computing environment where everyone gets their preferred operating systems, applications, user data and documents: Wherever they are and whenever they need them.

And Wyse WSM goes beyond the traditional VDI model too - with full support for mobile workers and remote branch offices. Wyse WSM effectively changes the rules on what's possible and opens up the benefits of high performance desktops to enterprise users: Wherever they are.

## Better than a PC could ever be.

With Wyse WSM users - such as those in the financial or retail industries - are given a fresh computer with their chosen PC operating system, applications and files all preloaded and ready-to-go, every time they sit down and start-up their powerful desktop devices known as Wyse 'cloud PCs'.

Wyse cloud PCs feature powerful processors that enable them to run full PC operating systems and applications locally, while keeping their documents and data secure on central Wyse WSM servers. Enabling existing PC users to continue to use all their familiar operating systems and applications seamlessly - but with greater reliability and better overall performance than a full PC - with the result that many users don't even realize they're using a cloud PC.

And - better still, Wyse WSM features a highly secure, robust and resilient network design that's ideal for remote offices and mission critical deployments such as the defence industry.

**With everything managed, updated, configured remotely and securely, Wyse WSM is everything a PC promises. Minus the headaches.**

**Continue tour**

Approved final 101110.

# **Thin Client Management** Wyse Device Manager

**Wyse Device Manager (WDM) addresses key management requirements for deploying powerful thin clients. With its centralized management and administration WDM helps IT departments deliver more effective remote thin client support while minimizing end user downtime. Security is assured with HTTPS based imaging, updates and downloads.**

**WDM delivers organization-wide benefits:**

| | |
|---|---|
| **Operations** | Centralized management.<br>Collect and organize asset information. |
| **Administration** | Health status reports.<br>Automated client settings.<br>Update client firmware and add applications. |
| **End User IT Costs** | Easier more effective remote support.<br>Create custom scripts and packages. |
| **Minimize downtime** | Restart or reset thin clients in less than a minute.<br>Enforce policies. Minimize user errors. |

## At a glance features:

| | |
|---|---|
| **Security** | • HTTPS Based Imaging / Updates<br>• Fully Encrypted Network Traffic<br>• Delegated Admin Access (MS AD) Support |
| **No-Hassle Deployment** | • Complete Device Imaging / Patching / Updates<br>• Bandwidth Throttling for Efficiency / Reliability<br>• Software Updates and Add-ons |
| **Device Administration and Monitoring** | • Device Health Status / Reporting<br>• Remote Shadowing / Control<br>• Default Device Configuration |
| **Scalability** | • Distributed Architecture<br>• Microsoft SQL Database Support<br>• Multiple Remote Repository Support |
| **Complete Asset Visibility** | • Automated device discovery<br>• Detailed Hardware Asset information<br>• Installed Software Asset information. |

**Continue tour**

Approved final 101110.

# User Experience Optimization Wyse TCX™ Suite with Collaborative Processing Architecture™

## Wyse TCX delivers an amazing user experience in one software suite.

Wyse TCX Suite of virtualization software enriches the user experience by removing the limitations previously associated with thin clients. It enhances, not replaces, key protocols like ICA/HDX and RDP by adding key features to make each more valuable.

### Multi-display

Ensures application windows and dialog boxes are multi-monitor aware when using more than one monitor.

### USB Virtualization

Enables plug and play peripheral support for virtual desktop environments.

- Redirect and use local USB devices in virtual desktops.
- Deploy virtual desktops to knowledge workers with special device access needs.
- Enable a broad set of USB peripherals including webcams and headsets.

### Multimedia acceleration

Streamlines the delivery of video and audio content to the local client for a rich user experience within a thin client computing architecture.

- Accelerates Mpeg1, Mpeg2, WMV, Mpeg4 Part 2, AC3, AAC, MP3, WAV, WMA media types.
- Collaborative Processing Architecture enhances server scalability, and network utilization by off-loading multimedia rendering to the client.

### Flash acceleration

Flash acceleration helps thin client users to experience improved Flash video performance. While the Flash player continues to run server-side, the resulting images are transcoded and redirected to the client for fast rendering. The technology allows for greater control of frame rate and compression and supports enhanced playback of YouTube-style flash videos in Internet Explorer.

### Bi-directional sound

Enables bi-directional audio in virtual desktop environments, enabling solutions such as VOIP, digital dictation or voice recognition to be deployed.

**Continue tour**

Approved final 101110.

# **Virtualization Software** Wyse Virtual Desktop Accelerator

## Removing the barriers of network latency

Wyse Virtual Desktop Accelerator (VDA) enables virtualized desktop and thin computing environments to be deployed to areas where network latency has, to date, presented operational barriers. Now, with Wyse VDA, more users can receive the full benefits of Wyse thin computing – with the best PC experience over virtualized desktops.

Wyse VDA is a software-only solution for Wyse thin clients and supported PCs that delivers the best user experience for the allocated network bandwidth by neutralizing the effects of network latency and packet loss. Making 'thin' suitable for more remote-site, branch, or field-based users.

Wyse VDA works with instead of replacing existing RDP and ICA protocols, accelerating them by up to 20 times on networks faced with latencies up to and beyond 300ms, and at least 768kbps bandwidth.

## At a glance features:

- Software-only acceleration of virtual desktops and applications
- Accelerates existing Citrix ICA and Microsoft RDP protocols
- Works on WANs and 'fat, long pipes'
- Accelerates connections to Citrix XenApp, Citrix XenDesktop, VMware View and Microsoft Terminal Server and Microsoft Hyper-V VDI
- Enhances Wyse TCX software suite functionality across wide-area networks
- Enables Wyse Collaborative Processing Architecture across wide-area networks
- Administrator console provides control of maximum bandwidth per connection
- Leverages built-in security of underlying protocols (128-bit encryption for RDP and ICA).

**Continue tour**

Generic WVDA approved final 010410

# Operating Systems Wyse ThinOS 7

**Wyse ThinOS is the most secure, management-free solution for cloud and virtual computing environments with built-in support for the latest infrastructures including Citrix, Microsoft, VMware and other vendors.**

## Fast. Simple. Secure

This fast, purpose-built thin computing platform boots up in seconds, updates itself automatically, and provides IT managers with simple, scalable administration to suit their organization's needs. Security is assured too as there's no pubished API – giving you an environment that's immune from malware.

Management is simple with time consuming tasks such as software and configuration updates automated via central file servers (ftp, http, and https) where Wyse thin clients can check-in for their updates. So, whether you have 10, 100 ...or 1000 devices, rolling out a new update is as easy as dropping a file onto your file server.

## New Zero Launchpad optimizes Virtual Desktop Deployments

By harnessing the power of the new Wyse Zero engine, Wyse ThinOS delivers fast and secure desktops with user experiences based an individual's access levels.

Logging on is fast and easy too with no double desktop dramas. There's just one screen for inputting their credentials before users are immediately presented with their assigned desktop(s).

Finally, the new Wyse Zero toolbar gives advanced users the option to switch between multiple virtual desktops or modify local settings (i.e. display resolution)– all without leaving their virtual desktop environment.

## Wyse ThinOS delivers a wealth of innovative, user-oriented and productive features:

### Instant-on, simple access for users

- New Zero launchpad and Zero toolbar adapt to provide simple and advanced access depending on user privileges.
- With class-leading boot-up times, users are ready to login in seconds.

### Automated Management

- Wyse ThinOS enables simple, scalable device management from day one without the need for basic management software.
- For more in depth management Wyse ThinOS features complete integration with Wyse Device Manager.

### Security

- Featuring an unpublished API and no file system, Wyse ThinOS is inherently secure providing maximum security from malware and viruses.
- Secure remote access using Citrix Access Gateway (CSG mode) or VMware Security Server, including dual authentication with RSA SecureID.

### Best HDX and RDP in a non-windows client

- Support for latest HDX features including multimedia playback, USB webcam remoting, new audio codecs for VoIP, dual factor authentication, etc.
- Wyse is the only vendor with an RDP 7 compatible client on non-windows OS - other vendors use RDESKTOP (based on RDP 5.x)
- ICA and RDP performance outperforms other non-windows clients by 3x (on comparable hardware).
- Enhance existing protocols further with Wyse TCX (i.e. Multicasting, high latency support, USB on terminal server, etc)

Continue tour

Approved final 101110.

# **Operating Systems** SUSE Linux Enterprise Thin Client

**Wyse Enhanced SUSE Linux Enterprise Thin Client (SLETC) is a simple, secure, and easy to manage platform designed for customers looking for flexibility and support of the latest protocols (ICA, PCoIP, RDP, etc) without the need for a Windows-based thin client.**

## Thin-Linux for the Enterprise

Wyse Enhanced SLETC is not a 'home-brew' Linux. In fact, it's the industry's only enterprise-quality Linux platform, created by combining the security and flexibility of Novell's SUSE Linux with Wyse's cloud client computing leadership and innovation in user experience and simplified management. Additionally, SLETC is the only thin-Linux platform to protect customers from potential IP infringement suits as it is jointly indemnified by Novell and Microsoft.

## Simple "Hands-Off" Management

Deploying, managing, and updating SLETC is easier than any other thin-Linux distribution, Period. Utilizing Wyse's proven automatic update and configuration approach, management tasks can be handled centrally and easily without any management software required.

Updating 1 or 1,000 thin clients is as simple as dragging and dropping a file into a folder. For customers that desire a little more hands-on approach (such as asset tracking, reporting, etc) then integration with Wyse Device Manager is built-in.

## Security

Wyse Enhanced SLETC is designed with security in mind. IT Managers are able to provide a locked-down experience, smartcard login to virtual environments, VPN connectivity, and leverage a read-only file system that protects against data loss, theft and virus attacks.

## Flexible, Multi-Protocol Support

Being built from a standard enterprise-quality Linux distribution means SLETC supports a wide range of protocols and infrastructures straight-out-of-the-box including Citrix, Microsoft, VMware and even your legacy applications (such as terminal emulations) - allowing you to mix-and-match connections from a single SLETC image.

**That's Wyse Enhanced SUSE Linux Enterprise Thin Client**

The only enterprise-quality Linux that's optimized for thin client computing.

**Continue tour**

Approved final 101110.

# Operating Systems Microsoft Windows XP Embedded

**Running Microsoft Windows XP Embedded on Wyse thin clients gives IT departments the ability to support Citrix ICA, Microsoft RDP and VMware View environments and deploy fully functional desktops with better manageability and significantly lower total cost of ownership than personal computers.**

Wyse Enhanced Microsoft Windows XP Embedded-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers located on the network, with inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.

Microsoft Windows xp Embedded

## Secure write-protected thin desktops

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the file system image from accidental changes or user customization. On rebooting, the thin client simply returns to the required file system image state.

## Wyse customized image support

Wyse technicians are able to help you customize Windows XP Embedded to your exact requirements and create bespoke system images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

**Contact your Wyse Partner for further details.**

Continue tour

Generic MS XPE overview approved final 181209

# **Operating Systems** Microsoft Windows Embedded Standard 2009

**Running Windows Embedded Standard (WES) on Wyse thin clients gives IT departments the ability to deploy fully functional desktop clients with better manageability and significantly lower total cost of ownership than personal computers.**

Wyse WES 2009-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers, with the inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.

Full support is provided for RDP 7.0, Citrix ICA 11.2, VMware View 4.0.1 and Internet Explorer 8.

## Secure write-protected thin client desktops

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the files, folder and/or entire volumes from accidental changes or user customization. On rebooting, the thin client simply returns to its original state thus preventing any possible damaging modification either from users or malware.

## Wyse customized image support

Wyse technicians are prepared to help you customize Windows Embedded Standard 2009 to your exact requirements in order to create custom-built images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

**Contact your Wyse Partner for further details.**

Continue tour

Approved final 101110.

# **Operating Systems** Microsoft Windows Embedded Standard 7

**New Windows Embedded Standard 7 (WES 7) delivers a wealth of enhanced deployment, user experience and management benefits to Wyse desktops, mobiles and thin clients deployed across an organization's virtualized network.**

### Richer user experience

Wherever they are - deskbound or mobile - with Microsoft Windows Embedded Standard 7 your users can benefit from the rich user experience of the Aero interface and the power, familiarity and reliability of the Windows 7 operating system in a highly customizable and componentized form.

Full support is provided for Remote Desktop Protocol (RDP) 7.0 to provide seamless connectivity to Windows Server 2008 R2 and virtual desktop infrastructure scenarios. The Wyse-enhanced WES7 platforms include additional features supporting the latest Citrix Online Plug-in and VMware View 4.5 to fit the needs of your most sophisticated users and making it an optimum OS for organizations wanting broad support for Cloud computing and desktop virtualization. Citrix Online Plug-in provides the HDX user experience and View 4.5 provides localization and Virtual Printing.

The platform also features additional Windows technology innovations to drive rich, immersive user experiences, including Internet Explorer 8.

There's full support and inbuilt flexibility too, to add and support a host of desktop peripherals with permission from the IT administrator.

### Easier to manage and deploy

Now, with WES7, deploying 32-bit capable thin clients is easier and more manageable than ever before and reflects the direct working relationship between Wyse and Microsoft.

The support for Domain Join and group policies through Active Directory, along with support for management infrastructures like Microsoft System Center Configuration Manager (SCCM), help with management and integration of thin clients into existing desktop management infrastructures.

Wyse Device Manager (WDM) addresses key management requirements for deploying powerful thin clients. With its centralized management and administration, WDM helps IT departments deliver more effective remote thin client support while minimizing end user downtime. While to help IT and Customer Service staff, a simple USB imaging solutions, Wyse USB Firmware Tool, allows to quickly and easily manage image supported devices.

### Enterprise-wide consistency

Wyse Embedded Standard 7 and Wyse provide the ideal, cost effective opportunity to deploy a consistent, high performance operating system across Wyse cloud clients.

**Take the Tour again**

Approved final 101110.

# Contact Wyse

**Wyse Technology Inc.**
3471 North First Street, San Jose, CA 95134-1801

**Visit our website at:**
http://www.wyse.com or send an email to: sales@wyse.com

**Wyse Sales**
800 GET WYSE (800 438 9973)
International customers please dial:
00 1 408 473 1200

**Wyse Customer Service Center:**
800 800 WYSE (800 800 9973)

**Wyse offers cloud client computing sales, service and support expertise around the globe.**

Click here for contact details of your regional Wyse office.

©2010 The Wyse logo and Wyse are trademarks of Wyse Technology Inc. Other product names mentioned herein are for identification purposes only and may be trademarks and/or registered trademarks of their respective companies. All specifications are subject to change without notice. Whilst we make every effort to ensure the accuracy of the details, specifications, models, images and benefits featured in this datasheet, we cannot be held responsible for any errors and/or omissions. If you have any queries regarding Wyse products please contact your authorized regional Wyse Partner or representative for further information and assistance. Some features require support by server operating system and protocol. Approved final 101110.

# **Technical** Wyse R class specifications

**Wyse R00L Cloud PC; R10L, R50L, R90LW and R90L7 thin clients**

**Wyse R00LE cloud PC; R50LE, R90LE and R90LEW thin clients**

The Wyse R class family of cloud clients is available in L and LE configurations. Choose from versions featuring Wyse ThinOS, Wyse Enhanced SUSE Linux, Microsoft Windows XP Embedded, Windows Embedded Standard 2009 and Windows Embedded Standard 7 (RL Family only). Provisioned environments are supported with Wyse WSM.

**Wyse Thin OS**

Wyse ThinOS

**Wyse Enhanced SUSE Linux Enterprise**

Novell

**Microsoft Windows XP Embedded**

Microsoft Windows xp Embedded

**Microsoft Windows Embedded Standard 2009**

Windows Embedded Standard 2009

**Microsoft Windows Embedded Standard 7**

Windows Embedded Standard 7

**Wyse WSM**

Wyse WSM

**Learn more.** Simply click these data sheet icons

Visit: wyse.com

# **Wyse R class L-Family Specifications:** R00L Cloud PC; R10L, R50L, R90LW and R90L7 thin clients

## Hardware specifications

| | |
|---|---|
| **Processor** | 1.5 GHz AMD Sempron Processor |
| **Memory** | R00L 0/1GB or 0 / 2GB RAM<br>R10L 128MB Flash / 512MB RAM<br>R50L 1GB Flash / 1GB RAM<br>R90L 1GB Flash / 1GB RAM<br>R90LW 2GB Flash / 1GB RAM<br>R90L7 4GB Flash / 2GB RAM<br>up to 4GB Flash / 2 GB RAM |
| **I/O peripheral support** | One DVI-I Port<br>One DVI-D Port<br>Two PS/2 ports<br>Two serial ports<br>Six external USB 2.0 ports (2 front; 4 back)<br>One Mic In<br>One Line Out |
| **Included** | Optical mouse and PS/2 keyboard |
| **Graphics** | AMD ATI 690E<br>Microsoft Windows Vista Premium and Windows 7 ready |
| **Networking/Comm** | 10/100/1000 Base-T Gigabit Ethernet<br>802.11 b/g/n and Bluetooth 2.0 (optional) |
| **Display** | VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate<br>Dual monitor supported*<br>Single: 2560X1600 32 bpp 60Hz<br>Dual: 2560X1600 32 bpp 60Hz |
| **Audio** | Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker.<br>In: 1/8-inch mini, 8 bit stereo microphone. |
| **Factory options** | Internal wireless option 802.B/G/N for R10L and R50L<br>Internal wireless and bluetooth option 802.B/G/N for R90L, R90LW and R90L7<br>Fiber Optic-ready Wyse R90LW** |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.6 Watts in idle state. |
| **Shipping weight** | 6.50 lbs. (2.95kg) |
| **Mountings** | Vertical or Horizontal (optional), VESA mount. |
| **Security** | Built-in Kensington security slot (cable sold separately) |
| **Dimensions** | 250mm x 225mm x 53mm (9.8 in. x 8.8 in. x 2.1 in.) |
| **Temperature Range** | Horizontal position: 50 to 95 F (10 to 35 C)<br>Vertical position: 50 to 104 F (10 to 40 C) |
| **Humidity** | 20% to 80% |
| **Hardware Warranty** | Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades |
| **Certifications** | German EKI-ITB 2000, ISO 9241-3/-8<br>cULus 60950, TÜV-GS, EN 60950<br>FCC Class B, CE, VCCI, C-Tick<br>WEEE, RoHS Compliant |

* R10L is 1920 x 1200 32 bpp 60Hz (single and dual)
** Fiber Optic Board not included. Please refer to release notes or your Wyse account manager for supported Fiber Optic Board.

# **Wyse R class LE-Family Specifications:** R00LE cloud PC; R50LE, R90LE and R90LEW thin clients

## Hardware specifications

| | |
|---|---|
| **Processor** | 1.5 GHz AMD Sempron Processor |
| **Memory** | R00LE 0 / 1GB or 0 / 2GB RAM<br>R50LE 1GB Flash / 1GB RAM<br>R90LE 1GB Flash / 1GB RAM<br>R90LEW 2GB Flash / 1GB RAM<br>up to 4GB Flash / 2 GB RAM |
| **I/O peripheral support** | One DVI-I Port / One DVI-D Port<br>Two PS/2 ports<br>Two serial ports<br>One Parallel port<br>Six External USB 2.0 ports (2 front; 4 back)<br>Four Internal USB 2.0 ports<br>One Mic In / One Line Out |
| **Expansion** | One PCIe 1.1a x4 with x16 slot, half card length, full height |
| **Included** | Optical mouse and PS/2 keyboard |
| **Graphics** | AMD ATI 690E<br>Microsoft Windows Vista Premium and Windows 7 ready |
| **Networking/Comm** | 10/100/1000 Base-T Gigabit Ethernet<br>802.11 b/g/n and Bluetooth 2.0 (optional) |
| **Display** | VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate<br>Dual monitor supported<br>Single: 2560X1600 32 bpp 60Hz<br>Dual: 2560X1600 32 bpp 60Hz |
| **Audio** | Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker<br>In: 1/8-inch mini, 8 bit stereo microphone |
| **Factory options** | Internal wireless option 802.B/G/N for R50LE<br>Internal wireless and bluetooth option 802.B/G/N for R90LE and R90LEW |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.1 Watts in idle state. |
| **Shipping weight** | 8.37 lbs. (3.8kg) |
| **Mountings** | Vertical or Horizontal (optional), VESA mount. |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Dimensions** | 307mm x 225mm x 82mm (12.1 in. x 8.8 in. x 3.2 in.) |
| **Temperature Range** | Horizontal position: 50 to 95 F (10 to 35 C)<br>Vertical position: 50 to 104 F (10 to 40 C) |
| **Humidity** | 20% to 80% |
| **Hardware Warranty** | Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades |
| **Certifications** | German EKI-ITB 2000, ISO 9241-3/-8<br>cULus 60950, TÜV-GS, EN 60950<br>FCC Class B, CE, VCCI, C-Tick<br>WEEE, RoHS Compliant |

# **Wyse ThinOS 7** Specifications

| | | | |
|---|---|---|---|
| **HDX Ready client** | • HDX Mediastream<br>• HDX Realtime<br>• HDX IntelliCache<br>• HDX Broadcast (Branch Repeater) | • HDX Plug-n-Play<br>• Progressive Display<br>• Desktop Restart (XenDesktop)<br>• Smartcard authentication and redirection | • Flash (server rendered)<br>• Seamless Windows<br>• Session Reliability<br>• Access Gateway Support (CSG mode) |
| **RDP 7.x Compatible client** | • Up to 32-bit color depth connections<br>• Smartcard authentication and redirection<br>• Rich Multimedia (TS MMR) | • Broad USB Support (with Wyse TCX)<br>• WAN Acceleration (with Wyse VDA)<br>• Flash Video support (with TCX) | • Network Level Authentication (NLA)<br>• True Multi-Monitor Support |
| **VMware View 4.x client** | • Smartcard Authentication<br>• Restart VM<br>• Bi-directional Audio (with TCX) | • SSL Tunneling<br>• Multimedia Support (with TCX)<br>• Flash Video Support (with TCX) | • SecureID Authentication<br>• Broad USB Support (with TCX)<br>• WAN Acceleration (with VDA) |
| **Roaming smart card vendor support** | Enables smart card users to not only roam from station to station but also access the same virtual environment support regardless of which station they are connecting from. Wyse ThinOS provides 'out-of-the-box' smart card support for vendors such as Gemalto .NET, Aladdin, and ActiveIdentity – supported within Citrix, VMware and Microsoft environments. Users benefit from secure login and roaming desktop support so they can access their environments from any suitably equipped Wyse thin computing environment. DoD CAC supported. | | |
| **Wyse TCX Suite** | Wyse TCX Suite virtualization software works with *and enhances* HDX and RDP protocols featuring:<br>• Multimedia – giving users the power to run rich multimedia files formats<br>• Multi-Display – windows and dialog boxes behave the way users expect across multiple displays.<br>• USB Virtualizer – client attached USB devices are visible to virtual desktops applications, and administrators.<br>• Rich Sound – receive and transmit high quality audio without compromise.<br>• Flash Acceleration – helps users of thin clients to experience improved Flash performance. | | |
| **Wyse Virtual Desktop Accelerator** | Neutralizes the effects of network latency and packet loss, making 'thin' more suitable for more remote-site, branch, or field-based users by boosting RDP and ICA up to 20 times on networks with latencies up to and exceeding 300ms and at least 768kbps bandwidth. | | |
| **Management made easy** | Fast booting, scalable administration includes simple drag and drop placement of firmware, automatic updates via file server and full integration with Wyse Device Manager. | | |
| **Security built in** | • With no published API Wyse ThinOS is inherently secure from viruses and malware.<br>• Wyse ThinOS includes robust wired and wireless 802.1x support, with secure encryption for simple installation and management.<br>• DoD CAC supported. | | |
| **Server OS Infrastructure Support** | • Citrix XenDesktop<br>• VMware View | • Citrix XenApp / Citrix Presentation Server<br>• Support for other leading VDI brokers (Quest Software, Leostream, etc) | • Microsoft Windows Terminal Server 2003 / 2008 |

Approved final 101110.

# **SUSE Linux Enterprise Thin Client** Software specifications

| | |
|---|---|
| **Firmware features** | SUSE Linux Enterprise Thin Client 11<br>Automatic Central Configuration (text-based INI's)<br>Automatic Upgrades (FTP, HTTP, HTTPS)<br>Secure, read-only file system with lockdown abilities<br>RDESKTOP 1.6 client<br>Citrix Online Plugin 11.2 client (ICA 11.2) w/ HDX Mediastream, Plug-n-Play, Realtime, etc.<br>VMware View 4.0 client<br>Ericom PowerTerm® Terminal Emulation<br>Cisco, Juniper, Nortel, IPSEC VPN Support (Add-ons)<br>Local/Remote Printing support (CUPS, LPR/LPD, Samba, ThinPrint,etc)<br>Web-based applications (Firefox, Flash, JAVA,etc)<br>XDMCP<br>SSH |
| **Server OS Compatibility/Support** | Citrix XenApp / Citrix Presentation Server<br>Citrix XenDesktop<br>VMware View<br>Microsoft Windows Terminal Server 2003 & 2008 |
| **Keyboard language support** | 100+ Keyboard Layouts supported locally (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish) |

| | |
|---|---|
| **Management made easy** | Automatic, "hands-off" configuration and upgrading of thin clients without the need for device management software. Optionally, administrators can choose to integrate with Wyse Device Manager (WDM) for more hands-on control:<br>- Complete image upgrade<br>- Wake terminal remotely (Wake-on LAN)<br>- Remote screen shadowing of entire desktop (VNC)<br>- Asset management and reporting |
| **Wireless support** | WPA Personal, WPA2 Personal, WPA Enterprise, WPA Enterprise Authentication support<br>PEAP/TLS: PAP/MSCHAP/MSCHAPV2 support |
| **Wyse TCX Suite** | Advanced support for innovative Wyse TCX Suite of virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring:<br>• Multimedia acceleration - the power to run rich multimedia files formats utilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server.<br>• Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>• USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control.<br>• Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>• Flash acceleration - helps users of thin clients to experience improved Flash performance. |
| **Wyse Virtual Desktop Accelerator** | Wyse Virtual Desktop Accelerator Delivers the best user experience for the allocated network bandwidth. Wyse Virtual Desktop Accelerator neutralizes the effects of network latency and packet loss, making cloud client computing more suitable for more remote-site, branch, or field-based users - and boosts RDP and ICA up to 20 times on networks with latencies up to and exceeding 300ms and at least 768kbps bandwidth. |

Approved final 101110.

# **Microsoft Windows XP Embedded SP3** Software specifications

| | |
|---|---|
| **Firmware features** | Microsoft Windows XP Embedded SP3<br>Microsoft Internet Explorer 7.0 resident: HTML, JavaScript, XML, Active X<br>Sun JRE, Media Player, Citrix Web Interface<br>RDP 6.0.xx resident<br>Citrix ICA 11 resident<br>VMware View Client Resident<br>Ericom PowerTerm® Terminal Emulation<br>provides 30-plus terminal emulations<br>Windows Media Player 11, .NET 3.0 SP1 |
| **Memory** | 1GB of flash memory and 1GB of RAM |
| **Server OS Infrastructure Support** | Citrix XenApp / Citrix Presentation Server<br>Citrix XenDesktop<br>VMware View<br>Microsoft Windows Terminal Server 2003 & 2008 |
| **Set-up and Configuration** | Boot from local flash<br>Microsoft Windows XP user interface languages: U.S. English, French,<br>German, Spanish, Optional add-ons |
| **Keyboard language support** | U.S. English (standard), French, German, Spanish, U.K. English,<br>40 other languages included |
| **Protocol Support** | TCP/IP, DNS, DHCP, PXE |
| **Management** | Remote management, configuration, and upgrades<br>through Wyse Device Manager<br>Complete image upgrade<br>Wake terminal remotely (Wake-on LAN)<br>Terminal configuration (IP information, name, etc.)<br>Remote screen shadowing of entire desktop<br>(Wyse Remote Shadow)<br>Reporting, Asset management<br>SMS<br>Altiris |
| **Wireless support** | 802.11 b/g/n support with internal wireless adapter<br>WPA-2, WEP, WPA wireless authentication<br>Supports wireless adapters from: Cisco, D-Link, Netgear,<br>US Robotics, Trendware |
| **Plug-ins** | Adobe Flash Player<br>Adobe Shockwave |
| **Wyse TCX Suite** | Advanced support for innovative Wyse TCX Suite virtualization software that both works with *and enhances* ICA and RDP (instead of replacing them) featuring:<br>• Wyse TCX Multimedia - the power to run rich multimedia files formats ultilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the client and the server.<br>• Wyse TCX Multi-Display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>• Wyse TCX USB Virtualizer - makes client attached USB devices visible to virtual desktops and applications, with full IT control.<br>• Wyse TCX Rich Sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>• Wyse TCX Flash Acceleration - helps users of thin clients to experience improved Flash performance. |

Generic WXPE Spec approved final 100410

# **Microsoft Windows Embedded Standard 2009** Software specifications

| | |
|---|---|
| **Firmware features** | Microsoft Windows Embedded Standard 2009<br>Microsoft Internet Explorer 8.0 resident: HTML, JavaScript, XML, Active X<br>Sun JRE, Media Player, Citrix Web Interface<br>RDP 7.0 resident<br>Citrix Online Plugin 11.2 resident (ICA 11.2)<br>VMware View 4.0.1 client resident<br>Ericom PowerTerm® Terminal Emulation<br>provides 30-plus terminal emulations<br>Windows Media Player 11, .NET 3.5 |
| **Server OS Infrastructure Support** | Citrix XenApp / Citrix Presentation Server<br>Citrix XenDesktop<br>VMware View<br>Microsoft Windows Terminal Server 2003 & 2008 |
| **Application Framework** | .Net 3.5 |
| **Security** | File Based Write Filter (FBWF)<br>Microsoft Baseline Security Analyzer (MBSA) |
| **Set-up and Configuration** | Boot from local flash<br>Microsoft Windows WES user interface languages: U.S. English, French,<br>German, Spanish, Optional add-ons |
| **Keyboard language support** | U.S. English (standard), French, German, Spanish, U.K. English,<br>40 other languages included |
| **Protocol Support** | TCP/IP, DNS, DHCP, PXE |
| **Management** | Remote management, configuration, and upgrades<br>through Wyse Device Manager<br>Complete image upgrade<br>Wake terminal remotely (Wake-on LAN)<br>Terminal configuration (IP information, name, etc.)<br>Remote screen shadowing of entire desktop<br>(Wyse Remote Shadow)<br>Reporting, Asset management<br>SMS<br>Altiris |
| **Wireless support** | 802.11 b/g/n support with external wireless adapter or<br>internal wireless adapter option<br>WPA-2, WEP, WPA wireless authentication<br>PEAP-GTC wireless authentication protocol with optional<br>Juniper Odyssey Client<br>Supports PC-Card wireless adapters from: Cisco, D-Link, Netgear,<br>US Robotics, Trendware |
| **Plug-ins** | Adobe Flash Player<br>Adobe Shockwave<br>Microsoft Silverlight |
| **Wyse TCX Suite** | Advanced support for innovative Wyse TCX Suite of virtualization software that both works with *and enhances* ICA and RDP (instead of replacing them) featuring:<br>• Multimedia acceleration - the power to run rich multimedia files formats ultilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server.<br>• Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>• USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control.<br>• Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>• Flash acceleration - helps users of thin clients to experience improved Flash performance. |

Approved final 101110.

# **Microsoft Windows Embedded Standard 7** Software specifications

| | |
|---|---|
| **Firmware features** | Microsoft Windows Embedded Standard 7 (WES7)<br>Microsoft Internet Explorer 8.0 resident:<br>HTML, JavaScript, XML, Citrix Web Interface<br>RDP 7.0 resident<br>Citrix Online Plugin 11.2 resident (ICA 11.2)<br>Citrix XenDesktop<br>VMware View 4.0.1 client resident (VMware View 4.5 supported)<br>Ericom PowerTerm® Terminal Emulation<br>provides 30-plus terminal emulations<br>Windows Media Player 12 |
| **Server OS Infrastructure Support** | Citrix XenApp / Citrix Presentation Server<br>Citrix XenDesktop<br>VMware View<br>Microsoft Windows Terminal Server 2003 & 2008 R2 |
| **Security** | File Based Write Filter (FBWF) |
| **Set-up and Configuration** | Boot from local flash<br>Microsoft Windows WES7 user interface languages: U.S, Optional add-ons |
| **Keyboard language support** | U.S. English (standard), French, German, Spanish, U.K. English,<br>40 other languages included |
| **Protocol Support** | TCP/IP, DNS, DHCP, PXE |
| **Management** | Remote management, configuration, and upgrades<br>through Wyse Device Manager<br>Complete image upgrade<br>Terminal configuration (IP information, name, etc.)<br>Reporting, Asset management<br>SCCM<br>Simple USB imaging solution with Wyse USB Firmware Tool |

| | |
|---|---|
| **Wireless support** | 802.11 b/g/n support with external wireless adapter or<br>internal wireless adapter option<br>WPA-2, WEP, WPA wireless authentication<br>PEAP-GTC wireless authentication protocol with optional<br>Juniper Odyssey Client<br>Supports PC-Card wireless adapters from: Cisco, D-Link, Netgear,<br>US Robotics, Trendware |
| **Plug-ins** | Adobe Flash Player<br>Microsoft Silverlight |
| **Wyse TCX Suite** | Advanced support for innovative Wyse TCX Suite virtualization software that both works with and enhances ICA and RDP (instead of replacing them) featuring:<br>• Multimedia acceleration - the power to run rich multimedia files formats ultilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the thin client and the server.<br>• Multi-display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.<br>• USB Virtualization - makes thin client-attached USB devices visible to virtual desktops and applications, with full IT control.<br>• Bi-directional sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.<br>• Flash acceleration - helps users of thin clients to experience improved Flash performance. |

Approved final 101110.

# **Wyse WSM** Software Specifications

| | | |
|---|---|---|
| **Device Hardware Requirements** | Windows XP Pro<br>• Minimum processor speed 800 MHz (1GHz or higher is recommended)<br>• Mind. 256 MB (1GB or higher is recommended)<br>Vista and Windows 7<br>• Minimum processor speed 1 GHz (1.5GHz or higher is recommended)<br>• Mind. 1 GB (2GB or higher is recommended) | • Flash size/local storage – none needed. If the device has flash it can be used as a local cache for offline mode. |
| **Server Requirements** | • Minimum processor speed 1GHz (3GHz or higher is recommended). | • Server Operating System: Windows XP Pro SP3, Windows Server 2003, Windows Server 2008 and 2008 R2 |
| **Network Requirements** | • Server Lan Speed = Minimum 100Mbps (1Gbps and up is recommended).<br>• Device Lan Speed = Minimum 10Mbps (100 Mbps full duplex is recommended) | |
| **Operating Systems Supported** | • Microsoft Windows XP • Microsoft Windows Vista. • Microsoft Windows 7. | |
| **Databases supported** | • Microsoft SQL 2005 and 2008 (Server and Express Editions). | |
| **Built-in high Availability** | • Database availability using SQL clustering. • Built-in server high availability through WSM Server Grouping feature. • Server to Server Fail-over Capability. | |
| **Fast and Easy Installation** | • Installing Wyse WSM is simply a matter of running a single, graphical installer. | • The installer checks for all the prerequisite components before installation. |
| **Web-based Admin Console** | • Allows IT administrators to access Wyse WSM from any browser.<br>• Control the entire installation from a central location. | • Dramatically simplifies administration, saving IT time and user downtime.<br>• Wizards to guide the user through specific tasks. |
| **Operation System and Application Imaging Tools** | • Imaging tool simplifies the process of creating an OS image for the specific hardware configuration and an application image for all hardware configurations. | • All OS and application images are ready for deployment once created, no further modifications needed. |
| **Application Subscription Management** | • Use flexible application deployment methods: - Auto-subscribed applications are ready for use when user logs in for the first time.<br>- Manual subscriptions allow users the flexibility to use applications only when needed.<br>- Mandatory subscriptions that cannot be unsubscribed by users. | |
| **Protected System Drive** | • Allows administrators to protect the system drive from enduser initiated updates. | • Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device. |

Approved final 101110.

# **Wyse WSM** Software Specifications continued

| | | |
|---|---|---|
| **Operating System Streaming** | • Wyse WSM provides an on-demand operating system to Wyse cloud PCs or diskless PCs on the network.<br>• Only those bits needed for the normal device operation are sent in order to reduce network traffic. | • Innovative technology makes each Wyse cloud PC or diskless PC think there is a virtual hard disk attached to the device.<br>• Operating-system images can be shared across multiple devices, making management easier. |
| **Flexible Boot Options** | • Each device can boot from four operating system image assignments.<br>• Administrators can assign or let users choose which operating system they want to boot. | • First disk mode for the default OS image to boot from every time device starts up.<br>• First available mode to boot from the first responding server in order to balance loads. |
| **Application License Management and Metering** | • Wyse WSM provides the infrastructure to collect information about the application license-usage across the enterprise. This information allows IT organizations to save money associated with application licenses. | • Licenses can be stored for all the applications deployed. It also enforces license compliance.<br>• Types of licenses that can be controlled include: - Time-based licenses (valid for X days).<br>- Number of concurrent users. |
| **Modes of Operation** | Wyse WSM allows administrators to choose modes of operation for the operating system:<br>- **Private Mode** – for administration of operating system images. | - **Shared Mode** – has two additional modes of normal operation:<br>- *Volatile* – returns desktop to pristine state after a device reboot.<br>- *Persistent* – remembers any user settings after a device reboot. |
| **Remote Servers for Scalability** | • IT administrators can deploy multiple remote servers to improve scalability of the overall solution. | • Central management of remote servers allows easy deployment of the solution across different geographic locations. |
| **Comprehensive Reporting** | • Easy ad-hoc reporting based on flexible parameters.<br>• Reports are delivered through HTML, giving you the flexibility to output in any form. | • License-metering reports can be used to make proactive purchasing decisions.<br>• License-audit reports can be used for compliance purposes. |
| **Desktop Compatibility** | • Wyse WSM works with Wyse C00LE, V00LE, R00L/E and X00C/L family cloud PCs as well as with existing thin clients, diskless PCs and virtual-desktop systems. | |

Approved final 101110.

Wyse R class L  Wyse R class LE

# Wyse R class cloud clients

## Best Power, Expandability and Display Performance

## Summary Data

## Wyse R class cloud clients

### Everything you need in a cloud client.

The Wyse R class family of cloud clients combines power, expandability and display performance with the legendary security, reliability and manageability of Wyse Cloud Client Computing maximising your investment and presents a compelling solution to delivering low cost, low carbon, high-performance desktops.

The family features powerful processors, dual monitor support, fast graphics and a host of USB ports for those vital everyday peripherals. Perfect when you need voice, data and video capabilities.

### High performance central and graphics processors.

Wyse R class features high performance central and graphics processors coupled with full support for multiple screens, and the best PC experience available on a cloud client platform with the Wyse TCX Suite of virtualization software.

### Mounting options.

Wyse R class cloud clients are supplied as standard with feet for vertical use, with optional feet for horizontal use. An optional VESA mount bracket enables back of monitor or wall mounting (this requires the four industry standard mounting points to be free). The same bracket can be used in a secure or ruggedized cabinet if required.

### Choice of operating systems.

The Wyse R class family of cloud clients is available in L and LE configurations. Choose from versions featuring Wyse ThinOS, Wyse Enhanced SUSE Linux, Microsoft Windows XP Embedded, Windows Embedded Standard 2009 and Windows Embedded Standard 7 (RL Family only). Provisioned environments are supported with Wyse WSM.

**Call Wyse:** 1-800-GET-WYSE  www.wyse.com

## Features

**Performance**

Advanced new generation ATI 690E graphics and AMD Sempron central processors for class-leading computing and graphics performance.

**Connectivity**

Featuring future proof connectivity with two DVI outputs and fast 802.11n WiFi.

**Mounting options**

The Wyse R class family can be sited vertically or horizontally on desktops, and even fitted to walls and behind monitors.

**Green**

Wyse R class cloud clients use between 12 and 15 watts of power in typical use – less than their nearest rivals, saving critical carbon output and vital budget.

**OS and Application Provisioning**

Full integration with Wyse WSM provisioning software with the Wyse ROOL and ROOLE.

**Wyse ThinOS**

Maximizes the new Wyse Zero engine to deliver fast and secure desktops with user experiences based an individual's access levels.

**Wyse Enhanced SUSE Linux**

Secure, flexible and market-leading Linux combined with Wyse optimizations in management and user experience.

**Microsoft Windows XP Embedded SP3**

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the file system image from accidental changes or user customization.

**Microsoft Windows Embedded Standard 2009 and 7**

Take advantage of the power of Windows Embedded Standard 2009 and the rich user experience of Windows Embedded Standard 7.

# **Wyse R class cloud clients** Hardware Specifications

## Wyse R class L family

| | |
|---|---|
| Processor | 1.5 GHz AMD Sempron Processor |
| Memory | R00L 0/1GB or 0 / 2GB RAM<br>R10L 128MB Flash / 512MB RAM<br>R50L 1GB Flash / 1GB RAM<br>R90L 1GB Flash / 1GB RAM<br>R90LW 2GB Flash / 1GB RAM<br>R90L7 4GB Flash / 2GB RAM<br>up to 4GB Flash / 2 GB RAM |
| I/O peripheral support | One DVI-I Port<br>One DVI-D Port<br>Two PS/2 ports<br>Two serial ports<br>Six external USB 2.0 ports (2 front; 4 back)<br>One Mic In<br>One Line Out |
| Included | Optical mouse and PS/2 keyboard |
| Graphics | AMD ATI 690E<br>Microsoft Windows Vista Premium & Windows 7 ready |
| Networking/Comm | 10/100/1000 Base-T Gigabit Ethernet<br>802.11 b/g/n and Bluetooth 2.0 (optional) |
| Display | VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate<br>Dual monitor supported*<br>Single: 2560X1600 32 bpp 60Hz<br>Dual: 2560X1600 32 bpp 60Hz |
| Audio | Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker.<br>In: 1/8-inch mini, 8 bit stereo microphone |
| Factory options | Internal wireless option 802.B/G/N for R10L and R50L<br>Internal wireless and bluetooth option 802.B/G/N for R90L, R90LW and R90L7<br>Fiber Optic-ready Wyse R90LW** |
| Power | Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.6 Watts in idle state. |
| Shipping weight | 6.50 lbs. (2.95kg) |
| Mountings | Vertical or Horizontal (optional), VESA mount. |
| Security | Built-in Kensington security slot (cable sold separately) |
| Dimensions | 250mm x 225mm x 53mm (9.8 in. x 8.8 in. x 2.1 in.) |
| Temperature Range | Horizontal position: 50 to 95 F (10 to 35 C)<br>Vertical position: 50 to 104 F (10 to 40 C) |
| Humidity | 20% to 80% |
| Hardware Warranty | Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades |
| Certifications | German EKI-ITB 2000, ISO 9241-3/-8<br>cULus 60950, TÜV-GS, EN 60950<br>FCC Class B, CE, VCCI, C-Tick<br>WEEE, RoHS Compliant |

## Wyse R class LE family

| | |
|---|---|
| Processor | 1.5 GHz AMD Sempron Processor |
| Memory | R00LE 0 / 1GB or 0 / 2GB RAM<br>R50LE 1GB Flash / 1GB RAM<br>R90LE 1GB Flash / 1GB RAM<br>R90LEW 2GB Flash / 1GB RAM<br>up to 4GB Flash / 2 GB RAM |
| I/O peripheral support | One DVI-I Port / One DVI-D Port<br>Two PS/2 ports<br>Two serial ports<br>One Parallel port<br>Six External USB 2.0 ports (2 front; 4 back)<br>Four Internal USB 2.0 ports<br>One Mic In / One Line Out |
| Expansion | One PCIe 1.1a x4 with x16 slot, half card length, full height |
| Included | Optical mouse and PS/2 keyboard |
| Graphics | AMD ATI 690E<br>Microsoft Windows Vista Premium and Windows 7 ready |
| Networking/Comm | 10/100/1000 Base-T Gigabit Ethernet<br>802.11 b/g/n and Bluetooth 2.0 (optional) |
| Display | VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate<br>Dual monitor supported<br>Single: 2560X1600 32 bpp 60Hz<br>Dual: 2560X1600 32 bpp 60Hz |
| Audio | Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker<br>In: 1/8-inch mini, 8 bit stereo microphone |
| Factory options | Internal wireless option 802.B/G/N for R50LE<br>Internal wireless and bluetooth option 802.B/G/N for R90LE and R90LEW |
| Power | Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.1 Watts in idle state. |
| Shipping weight | 8.37 lbs. (3.8kg) |
| Mountings | Vertical or Horizontal (optional), VESA mount. |
| Device Security | Built-in Kensington security slot (cable sold separately) |
| Dimensions | 307mm x 225mm x 82mm (12.1 in. x 8.8 in. x 3.2 in.) |
| Temperature Range | Horizontal position: 50 to 95 F (10 to 35 C)<br>Vertical position: 50 to 104 F (10 to 40 C) |
| Humidity | 20% to 80% |
| Hardware Warranty | Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades |
| Certifications | German EKI-ITB 2000, ISO 9241-3/-8<br>cULus 60950, TÜV-GS, EN 60950<br>FCC Class B, CE, VCCI, C-Tick<br>WEEE, RoHS Compliant |

**Wyse Technology Inc.**
3471 North First Street
San Jose, CA 95134-1801

**Visit our website at:**
http://www.wyse.com

Or send email to:
sales@wyse.com

**Wyse Sales**
800 GET WYSE
(800 438 9973)
+ 1 408-473-1200

**Wyse Customer Service Center:**
800 800 WYSE
(800 800 9973)

©2010 The Wyse logo and Wyse are trademarks of Wyse Technology Inc. Other product names mentioned herein are for identification purposes only and may be trademarks and/or registered trademarks of their respective companies. All specifications are subject to change without notice. Whilst we make every effort to ensure the accuracy of the details, specifications, models, images and benefits featured in this datasheet, we cannot be held responsible for any errors and/or omissions. If you have any queries regarding Wyse products please contact your authorized regional Wyse Partner or representative for further information and assistance. Some features require support by server operating system and protocol. Approved final 101110.